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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,078	10/06/2003	Manhee Jo	243645US90	4061

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EXAMINER	
HAMZA, FARUK	
ART UNIT	**PAPER NUMBER**
2155	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	**Application No.** 10/678,078	**Applicant(s)** JO ET AL.	
	Examiner Faruk Hamza	**Art Unit** 2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *06 October 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-16* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-16* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *06 October 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date *3/23/04,2/19/04,1/28/04*.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the application filed on October 06, 2003. Claims 1-16 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 8 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 recites the limitation "itself" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claim 14 recites the limitation "it" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsukakoshi et al. (U.S. Patent Number 6,496,510) hereinafter referred as Tsukakoshi.

Tsukakoshi teaches the invention as claimed including a router device is provided with a plurality of router node devices interconnected via internal transmission lines, in which each of the plurality of router node devices comprises a unit for connecting to a plurality of networks (See abstract).

As to claim 1, Tsukakoshi teaches a routing control system comprising:

transfer devices that perform transfer control processing, and a routing control device to which said transfer devices are connected (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22, Tsukakoshi discloses transfer devices (router node devices) are connected to routing control device),

wherein said routing control device has routing control information and transmits the routing control information to said transfer devices (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22, Tsukakoshi routing control device has routing control information), and

said transfer devices perform said transfer control processing of packets based on said routing control information transmitted from said routing control device (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22, Tsukakoshi discloses transfer devices (router node devices) perform processing of packets based on routing control information).

As to claim 2, Tsukakoshi teaches the routing control system according to claim 1, wherein said routing control device has a routing control table which holds said routing control information (See abstract, Fig. 4, Fig.5).

As to claim 3, Tsukakoshi teaches the routing control system according to claim 1, wherein said routing control device predicts the packet transfer routes based on said routing control information (See abstract).

As to claim 4, Tsukakoshi teaches the routing control system according to claim 1, wherein said routing control device-transmits the routing control information necessary for transfer devices on said packet transfer routes, to the transfer devices (Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 5, Tsukakoshi teaches the routing control system according to claim 1, wherein said transfer devices comprise storage means that stores said routing control information transmitted from said routing control device (Fig. 4, Fig. 5, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 6, Tsukakoshi teaches the routing control system according to claim 1, wherein, in cases where said transfer devices do not have said routing control information, said transfer devices request transmission of said routing control information thereto from said routing control device (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 7, Tsukakoshi teaches the routing control system according to claim 6, wherein when said routing control device receives a request for transmission of said routing control information from said transfer device, said routing control device transmits said routing control information, to the transfer device which requested this transmission (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 8, Tsukakoshi teaches a routing control method, wherein transfer devices that perform transfer control processing and a routing control device to which the transfer devices are connected are employed, said routing control device transmits the routing control information which is possessed by itself, to said transfer devices, and said transfer devices perform said transfer control processing of packets based on said routing control information transmitted from said routing control device (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 9, Tsukakoshi teaches a routing control device to which transfer devices that perform transfer control processing are connected, wherein said routing control device has routing control information relating to packet transfer routes and transmits the routing control information to said transfer devices (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 10, Tsukakoshi teaches the routing control device according to claim 9, having a routing control table which holds said routing control information (Fig. 4, Fig. 5).

As to claim 11, Tsukakoshi teaches the routing control device according to claim 9, wherein said routing control device predicts the packet transfer routes based on said routing control information (See abstract, Column 2, lines 3-51).

As to claim 12, Tsukakoshi teaches the routing control device according to claim 9, wherein said routing control device transmits the routing control information necessary for transfer devices on said packet transfer routes, to the transfer devices (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 13, Tsukakoshi teaches the routing control device according to claim 9, wherein when a request for transmission of said routing control information is received from said transfer device, said routing control device transmits said routing control information to the transfer device which requested this transmission (Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 14, Tsukakoshi teaches a transfer device that performs transfer control processing, wherein said transfer device performs said transfer control processing of packets based on routing control information transmitted from a routing control device that is connected therewith (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 15, Tsukakoshi teaches the transfer device according to claim 14, which requests transmission of said routing control information thereto from said routing control device, in cases where it does not have said routing control information (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

As to claim 16, Tsukakoshi teaches the transfer device according to claim 14, comprising storage means that stores said routing control information transmitted from said routing control device (See abstract, Column 2, lines 3-51, Column 3, lines 41-Column 6, lines 22).

4. **Examiner's Note:** Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in its entirety as potentially teaching of all or part of the claimed invention, as well as the context.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Li et al. (U.S. Patent Number 6,597,703) discloses system for reducing multicast forwarding states in a multicast communication system.
- Ruiz (U.S. Patent Number 5,916,306) discloses communication protocol for a router-based building automation and control network.
- Daruwalla et al. (U.S. Patent Number 6,693,878) discloses technique for using node ID as VPN identifiers.
- Desnoyers et al. (U.S. Patent Number 6,791,948) discloses distributed switch and connection control method for digital communications network.
- Matsuzawa et al. (U.S. Patent Number 7,009,987) discloses router device and cut-through path control method for realizing load balancing at intermediate routers.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faruk Hamza whose telephone number is 571-272-7969. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached at 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll –free).

Faruk Hamza

Patent Examiner

Group Art Unite 2155

Philip Tran
PRIMARY EXAMINER